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US REGISTRY
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ORD-0270-76

12 FEB 1976

MEMORANDUM FOR: Director of Security

SUBJECT: FY 77-78 Planning for Research and
Exploratory Development

REFERENCES: a. Memorandum for D/ORD from D/S, Same
Subject, Dated 27 January 1976
b. Memorandum for D/S from D/ORD, Same
Subject, Dated 5 December 1975
(ORD-5115-75)

1. Attached are outlines of proposed ORD FY-77 and FY-78 programs to satisfy your near-future research and development requirements as presented in Reference (a). Proposed programs in the fields of counterterrorism and microprocessor applications, although not included on your list of requirements, are also attached for your consideration.

2. Your review and ranking of the proposed programs as indicated in the references must be received by 18 February in order to fit the established budget planning cycle schedule. In general, one program has been proposed for each area identified in Reference (a). However, several independent projects have been proposed in the polygraph and computer security areas. Because of severe budget constraints, each of those projects must be ranked independently with respect to all other projects.

3. The ranking process by your office is extremely important and will most likely take on an added dimension this year due to anticipated budget limitations. This, plus the considerations described in Reference (b), has the net effect of raising the possibility that all proposed projects will not receive funding. The final program, based on your rankings and these other considerations, will be forwarded to you for review and comment in early April.

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SUBJECT: FY 77-78 Planning for Research and Exploratory
Development

4. Please continue to coordinate any aspects of the
proposed programs with [] of this office.

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[]
Donald L. Maas

Director of Research and Development

Attachments
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27 JAN 1976

MEMORANDUM FOR: Director of Research & Development

SUBJECT : FY 77/78 Planning for Research & Exploratory Development

REFERENCE : Memorandum for Director of Security, from Director of R&D, Subject: FY 77-78 Planning for Research & Exploratory Development, ORD 5115-75 (5 Dec 1975)

1. In accordance with your request in the reference, the Office of Security has reviewed and compiled a description of desired research and development efforts for FY 77-78.

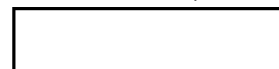
2. The following unranked areas should be considered as current Office of Security R&D requirements.



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3. In large measure these are the same projects proposed by the Office of Security last year. Some preliminary work has been accomplished by ORD on many of these and some have been funded by ORD while others were not. The exchange of correspondence last year between the Office of Security and ORD on those activities adopted and funded by ORD (attached at Tab B) contains

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adequate definition of these problem areas. Work done to date on them should be viewed as preliminary and should serve as the basis for future working level meetings to establish FY 77-78 ORD Planning. We look forward to your revised Project Proposals on these actions.

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4. In connection with Computer Security, Polygraph and [redacted] additional definition of the problem areas were discussed at a preliminary meeting held on 14 January 1976 between concerned representatives of the Office of Security and ORD. It was determined that additional definition of the problem areas should be spelled out and submitted to ORD. This additional information is attached at Tab C. We include here a statement of the existing systems and the operational problems which need to be addressed in relation to the [redacted] although we may ultimately agree that this matter may better be serviced by OTS. 25X1

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5. The Office of Security will be prepared to rank or prioritize the items listed in this memorandum following final agreement by our respective offices of the form of the Project Proposals. Should you have any questions regarding the overall exercise, the point of contact within the Office of Security is [redacted] of Technical Security Division, extension [redacted] vice [redacted] who was previously identified to your [redacted] as the OS point of contact. 25X1 25X1

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[redacted]

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Robert W. Gambino
Director of Security

Atts

Tab A: Reference

Tab B: ORD Research Proposals

Tab C: Fiscal Year 77/78 Planning for Research & Exploratory Development: [redacted] Computer Security, Polygraph 25X1

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ORD 5115-75

5 DEC 1975

MEMORANDUM FOR: Director of Security

SUBJECT : FY 77-78 Planning for Research and
Exploratory Development

1. Last year, the Office of Research and Development instituted a new planning system whereby Customer Requirements were requested from 24 Agency components. Joint Customer-ORD working group meetings resulted in project proposals for both FY 76 and FY 77. These proposals were then integrated into a total ORD FY 76 program and a tentative FY 77 program plan. Approximately 80% of the FY 76 ORD research budget was allocated to direct customer requirements compared to approximately 50% in FY 75.

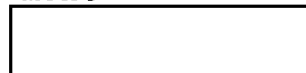
2. In order to provide continuity between last year's planning process and this year's, status reports of your FY 76 (+ TQ) and FY 77 requirements are attached. Changes since the last status report (provided to you in early April 1975) are explained. We realize that portions of the FY 77 Requirements list may be outdated since it was generated some eight months ago. Also, we have not had time to reprogram in response to the large OMB Budget Cut of 1 December. The FY 77 list, therefore, should be regarded merely as a point of departure for the FY 77-78 planning cycle discussion.

3. For convenience, we have defined six phases for the FY 77-78 planning cycle as follows:

a. Initial Requirements generated (Dec 8-Jan 9):

Please prepare a description of your estimated R&D needs for FY 77-78 (and projections of FY 79-82 research needs as well). At the same time, appropriate elements within ORD will prepare descriptions of possible R&D support programs based upon previous experience, an overall analysis of Agency needs, and an assessment of the current state of the art. These drafts should be exchanged prior to the initial working group meetings in the next phase.

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b. Initial joint working group meeting (Jan 12-16):

Discussion of your Initial Requirements and related ORD-proposed areas of activity.

c. ORD drafts Project Proposals based on joint meetings (Jan 19-30):

Preliminary estimates of project cost, schedule, and possible technical approaches will be drafted by ORD. This set of potential R&D projects will include both your initial requirements and those ORD-proposed efforts in which your representatives concurred at the joint meetings.

d. Project Proposals reviewed and ranked by Customer (Feb 2-13):

Your representatives and those from ORD will discuss amendments and corrections during this period. Also, you will be requested to prioritize the proposed projects in rank order, e.g., for 17 projects, the highest priority project would be ranked 1/17. This list of projects will constitute your formal list of Requirements for the FY 77-78 planning cycle. To fit our planning cycle schedule, I must have your finalized listing by 18 February. (Components outside the DDS&T should coordinate their Requirements within their Directorate if appropriate).

e. ORD FY 77 and FY 78 Program Plan (Feb 23-Mar 19):

Based on last year's experience, we expect that the total funding needed to service all customer requirements will far exceed the total ORD budget. The process by which ORD selects projects for its FY 77 Program (and the tentative FY-78 Plan) is essentially the Zero-Base Budgeting approach. At the conclusion of this phase, Projects to be funded will have been identified based on customer priorities, estimated feasibility/probability of success, estimated cost to achieve

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SUBJECT: FY 77-78 Planning for Research and Exploratory Development

the desired goal, and the total ORD budgetary constraints.

f. Final Customer Review (April 5-16):

The ORD funding decisions pertaining to your Requirements will be forwarded to you by April 5. At this point, changes can still be suggested subject to the following constraint: Each Office Director could suggest substitutions within his dollar total, and each Deputy Director outside the DDS&T would be able to suggest substitutions within his directorate dollar total. All such suggestions must reach ORD before mid-April, since the ORD Program Call will be due to the DDS&T around that time.

4. The guidelines suggested for Initial Requirements last year are still valid:

- a. Address only those projects which are of a research and exploratory development nature; include areas having potentially high payoff with low a priori probability of success and areas with long-term (5-10 years) payoff. Exclude projects which are purely developmental, operational or production in nature, and exclude those activities which would normally fall within your own charter.
- b. Define Initial Requirements in sufficient detail to identify specific developmental, operational, or production problems that the research is intended to solve or help solve. Except for unusual cases, pre-judgements of technical approaches or solutions should be avoided.
- c. Define the relationships of the requested research to the total system needed to satisfy relevant intelligence objectives; this will

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SUBJECT: FY 77-78 Planning for Research and Exploratory
Development

enable ORD to identify other possible
research requirements needed for the
complete operational system.

5. The ORD planning system is still maturing and
refinements will undoubtedly be needed over the next
few years. However, based on our experience last year,
the system appears to be of mutual benefit to ORD and
its customers. I would, therefore, like to request that
you designate a representative in your office through
which appropriate ORD elements might work in identifying
your research and exploratory development needs. The ORD
representative responsible for coordinating your office
requirements is

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Donald L. Haas
Director of Research and Development

Attachment:
As stated

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ORD-0363-75

3 February 1975

MEMORANDUM FOR: Deputy Director for Physical, Technical
& Overseas Security

SUBJECT: ORD Research Proposals

1. Attached is a group of proposed R&D actions that relates to the Office of Security, including our projected cost of each activity. Some of our inputs reflect a broader response than may have been anticipated in your initial requirements. This approach has been followed in lieu of submitting additional line items.

2. The intent is to have your people review the definition of the problem, as we understand it, and the proposed approach. You may mark up or change these plans as you see fit.

3. In addition to returning these write-ups with any modifications that you may have, we will need a priority ranking of the items. I would suggest a four-tier system. If at all possible, we would like to meet with you on this subject prior to your final ranking so that we might better understand your evaluation criteria. We do not realistically anticipate funding sufficient for all the proposed work.

[Redacted Signature]

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Chief, Operations Technology, ORD

Attachment
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MONITORING CENTRAL NERVOUS SYSTEM FOR SYMPTOMS OF DECEPTION

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- LSR/ORD

See Countermeasures to Polygraphy

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POLYGRAPH CHART INTERPRETABILITY

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☐ LSR/ORD

POLYGRAPH CHART INTERPRETABILITY

PROBLEM: The polygraph chart is a primary aid in evaluating responses in the interrogation situation. Correct interpretation of this chart is of basic importance to the successful use of this tool. A number of questions regarding interpretation remain unanswered. These include:

1. Are the chart interpretation criteria being used appropriately? Are there physiological or psychocultural factors which impact on the chart interpretation? What are they and what new criteria should be used?
2. What social psychological and/or situational factors are likely to alter the physiological traces? Can these be used in some fashion to enhance chart interpretability?

APPROACH: Chart interpretability will be considered as applicable as part of other technique evaluation and development programs.

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